

# इंटरनेट

# मानक

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Mazdoor Kisan Shakti Sangathan

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“पुराने को छोड़ नये के तरफ”

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“Step Out From the Old to the New”

IS 10040 (1981): Specification for Rotating Hooks for Sewing Machines for Industrial Use [MED 29: Sewing Machines]



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“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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*Indian Standard*

# SPECIFICATION FOR ROTATING HOOKS FOR SEWING MACHINES FOR INDUSTRIAL USE

**1. Scope** — Covers the requirements of rotating hook which operates in a full rotary motion in a vertical plane on a horizontal axis, and is mainly used on LS1(1) and LS2(1) class sewing machines for industrial use.

**Note** — Symbols LS1(1) and LS2(1) conform to IS: 9152-1979 'Glossary of terms and identification symbols relating to classification of industrial sewing machines'.

**2. Nomenclature** — Shall be as shown in Fig. 1.

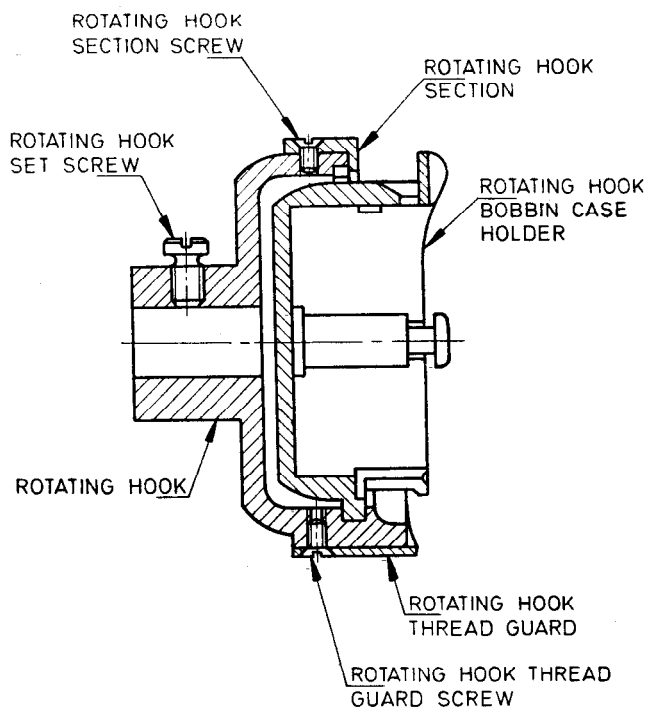
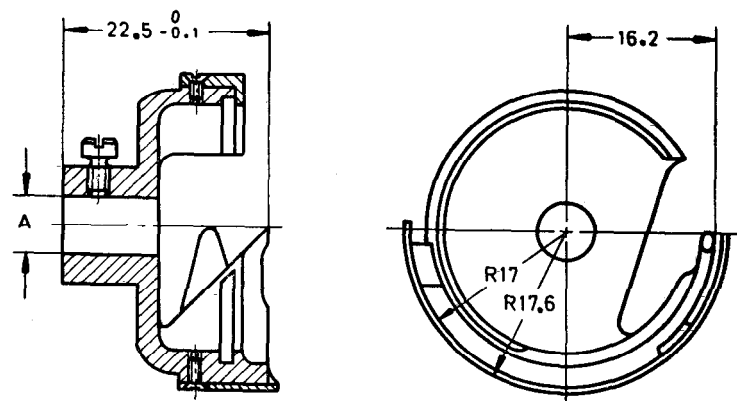


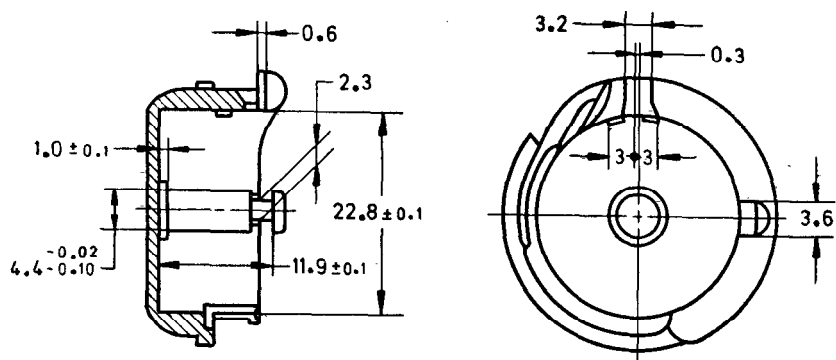
FIG. 1 NOMENCLATURE FOR ROTATING HOOK

**3. Types** — The rotating hooks shall be of three types, namely, Type 1, Type 2 and Type 3, according to the size of the shaft holes in the rotating hooks.

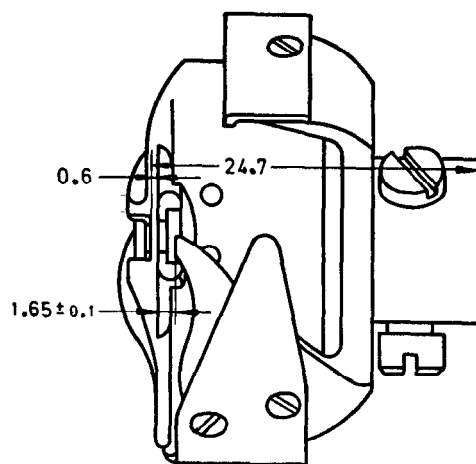
**4. Dimensions** — Shall be as shown in Fig. 2



ROTATING HOOK



ROTATING HOOK BOBBIN CASE HOLDER



ASSEMBLY OF ROTATING HOOK  
AND ROTATING HOOK BOBBIN CASE HOLDER

**Note** — The dimensions without tolerance are those recommended to be used.

All dimensions in millimetres.

FIG. 2 DIMENSIONS FOR ROTATING HOOKS

**4.1 Dimensions of shaft hole A in the rotating hooks of Type 1, Type 2 and Type 3 shall be as follows:**

All dimensions in millimetres.

	Type 1	Type 2	Type 3
A	$5.53^{+0.008}_{-0}$	$7.24^{+0.009}_{-0}$	$7.94^{+0.009}_{-0}$

**5. Material and Hardness** — Rotating hook, rotating hook bobbin case holder and rotating hook section shall be manufactured from steel suitably heat treated to have a minimum hardness of 500 HV with 5 kgf load [ see IS : 1501-1969 Method for Vickers hardness test for steel ( *first revision* ) ].

## **6. Workmanship and Finish**

**6.1** The rotating hook, rotating hook bobbin case holder and rotating hook section shall be well finished and free from blemish, pits, cracks, burrs and rust, etc.

**6.2** The raceway and the threadway shall be finished smoothly.

**6.3** The assembly of each part of the rotating hook shall be accurate and shall function satisfactorily.

**6.4** The mating of rotating hook and rotating hook bobbin case holder shall have appropriate clearance for proper sewing and shall rotate smoothly without abnormal noise.

**6.5** Lubrication of rotating hooks on industrial sewing machines provided with lubricating device shall be satisfactory.

**7. Marking** — The rotating hook shall be marked at rotating hook section with the manufacturer's name or recognized trade-mark, if required.

**7.1 ISI Certification Marking** — Details available with the Indian Standards Institution.

## **8. Packing**

**8.1** Each rotating hook shall be given a suitable anti-rust coating or shall be wrapped in vapour phase inhibitor paper ( commonly known as VPI paper ). The wrapped rotating hook shall then be securely packed in a strong cardboard, plastic or wooden packing in accordance with the best trade practices.

**8.2** Each packing shall bear the manufacturer's name, trade-mark and the description of the contents.

**8.2.1** The package may also be marked with the ISI Certification Mark.

## **EXPLANATORY NOTE**

While preparing this standard, assistance has been derived from JIS B 9072-1964 Rotating hooks on horizontal axis of sewing machines for industrial use, issued by the Japanese Industrial Standards Committee.